

IMMUNEX
Cerretti - 2826

ZYMO
Sheppard

BMS
Lopez-Ortiz

60/074,310
Filed 2/11/98

119(e)

PCT US99/03016
Filed 2/11/99
(Added-Ex 1-Northern blot
Ex 2-Chromosomal Mapping)

WO 99/03016
Published 8/19/99

CON

09/634,252
Filed 2/7/00
(nucleic acid
OA 8/29/03)

DIV

10/202,675
Filed 7/23/02
US2003/010091 A1
Published 05/29/03
(isolated polypeptide
encoding a domain of
ADAM-23, fusion protein,
recombinant polypeptide
No action as of 10/14/03)

60/092,371
Filed 7/10/98

119(e)

09/351,414
Filed 7/9/99

CONT

DIV

09/809,617
09/809,790 Filed 3/15/01
Filed 3/16/01

US2002/0072102
Published 6/13/02
(isolated polypeptide,
isolated polynucleotide,
fusion protein vector,
cultured cell,
method of production,
method of modulation)
1st OA 6/2/03

USP 6,265,199
Issued 7/24/01
(isolated
polypeptide)

US2002/0137178
Published 9/26/02
polynucleotide
1st OA 6/2/03
(Some allowed Claims)

60/194,164
Filed 4/3/00

119(e)

09/824,129
Filed 4/2/01
(Abandoned)

US2002/0001840
Published 1/3/02
(isolated nucleic acid
vector host cell
method of identify
modulation peptide
method of inhibition
tumor growth composition)

10/359,464
Filed 2/5/03

Alignment of Cerretti SVPH3-17/ADAM23 (SEQ ID NO:4) with Sheppard et al. (SEQ ID NO:2)

Red text = Signal domain

Green = Prodomain

Purple = protease domain

Yellow = disintegrin domain

Double underlined = TM

Wave underlined = cytoplasmic

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Cerretti:   1 MKPPGSSSRQPPLAGCSLAGASCGPQRGVPASAPARTPPCRLLLVLVLLLPPLAAS 59
Cerretti:  60 SRPRAWGAAAPSAPHWNETAENKLGVLADEDNTLQONSSSNISYSNAMQKEITLPSRLT 118
Cerretti: 119 YYINQDSESPYHM 131

Sheppard:   1 TVLEFGFR 8

Cerretti: 132 LDTKARHQKHNKAVHLAQASFOLEAFGSKFILDLLINNGLLSSDYVEIHYENGKPOYSK 191
Sheppard:   9 LDTKARHQKHNKAVHLAQASFOLEAFGSKFILDLLINNGLLSSDYVEIHYENGKPOYSK 68

Cerretti: 192 GGEHCYYHGSIRGVKDSKVALSTCNGLHGMFEDDTFVYMI EPLELVHDEKSTGRPHIIQK 251
Sheppard:  69 GGEHCYYHGSIRGVKDSKVALSTCNGLHGMFEDDTFVYMI EPLELVHDEKSTGRPHIIQK 128

Cerretti: 252 TLAQYYSKOMKNLTMERGDQWPFLSEQLWKRRKRAVNPSRGIFEEMKYLELMIVNDHKT 311
Sheppard: 129 TLAQYYSKOMKNLTMERGDQWPFLSEQLWKRRKRAVNPSRGIFEEMKYLELMIVNDHKT 188

Cerretti: 312 YKKHRSSHAHTNNFAKSVVNLVDSIYKEQLNTRVVLVAVETWTEKDQIDITTNPVQMLHE 371
Sheppard: 189 YKKHRSSHAHTNNFAKSVVNLVDSIYKEQLNTRVVLVAVETWTEKDQIDITTNPVQMLHE 248

Cerretti: 372 FSKYRQRIKQHADAHLISRVTFHYKRSSLSYF GGVCSRTRGVGVNEYGLPMAVAQVLSQ 431
Sheppard: 249 FSKYRQRIKQHADAHLISRVTFHYKRSSLSYF GGVCSRTRGVGVNEYGLPMAVAQVLSQ 308

Cerretti: 432 SLAQN LGIQWEPSSRKPKCDCTESWGGCIMEETGVSHSRKFSKCSILEYRDFLQRGGGAC 491
Sheppard: 309 SLAQN LGIQWEPSSRKPKCDCTESWGGCIMEETGVSHSRKFSKCSILEYRDFLQRGGGAC 368

Cerretti: 492 LFNRPTKLFEPTECGNGYVEAGEECDCGFHVECYGLCCKKCSLSNGAHCSDGPCCNNTSC 551
Sheppard: 369 LFNRPTKLFEPTECGNGYVEAGEECDCGFHVECYGLCCKKCSLSNGAHCSDGPCCNNTSC 428

Cerretti: 552 LFQPRGYECRDAVNECDITEYCTGDSGQCPPNLHKQDGYACNQNGRCYNGECKTRDNQC 611
Sheppard: 429 LFQPRGYECRDAVNECDITEYCTGDSGQCPPNLHKQDGYACNQNGRCYNGECKTRDNQC 488

Cerretti: 612 QYIWGTKAAGSDKFCYEKLNTGTEKGNCCKDGRW IQCSKHDFVFCGFLCTNLTRAPRI 671
Sheppard: 489 QYIWGTKAAGSDKFCYEKLNTGTEKGNCCKDGRW IQCSKHDFVFCGFLCTNLTRAPRI 548

Cerretti: 672 GQLQGEI IPTSFYHQGRVIDCSGAHVVLDDDTDVGYVEDGTPCGPMMCLDRKCLQIQAL 731
Sheppard: 549 GQLQGEI IPTSFYHQGRVIDCSGAHVVLDDDTDVGYVEDGTPCGPMMCLDRKCLQIQAL 608

Cerretti: 732 NMSSCPLDSKGKVC SGHGVC SNEATCICDFTWAGTDCSIRDPVRNLHPPKDEGPKGPSAT 791
Sheppard: 609 NMSSCPLDSKGKVC SGHGVC SNEATCICDFTWAGTDCSIRDPVRNLHPPKDEGPKGLCDF 668

Cerretti: 792 NLIIGSIAGAILVAAIVLGGTGWGFKNVKKRRFDPTQOGPI 832

Sheppard: 669 GFNSWNTEFVDTPMHQYNILIDLRGDT 696

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Comparison of Cerretti and Sheppard *et al.* ADAM23 Amino Acid Sequences

Cerretti (SVP# 3-17, SEQ ID NO:4)

	1	132	306	405	788	832
1	58 59	286 287	Val	Gly	495 496	599 600
Signal	Pro Domain	Catalytic or Metalloprotease Domain	Disintegrin	Cysteine-Rich	TM	Cyto
	Propeptide	Protease Domain	Disintegrin	Cysteine-Rich		
1	163 164	382 383	464 465	696		
1	9	183	282	665 696		
		Gly	Glu			

Sheppard *et al.* (zdint.1, SEQ ID NO:2)